

# 4



**IN THE  
UNITED STATES  
PATENT AND TRADEMARK  
OFFICE**

<i>Application Number</i>	09/974,870
<i>Filing Date</i>	October 12, 2001
<i>First Named Inventor</i>	David Mark WHITCOMBE et al.
<i>Group Art Unit</i>	1656 1637
<i>Examiner Name</i>	Not Yet Assigned
<i>Attorney Docket Number</i>	1991-211

*Title of the Invention:* METHODS AND PRIMERS FOR DETECTING TARGET NUCLEIC ACID SEQUENCES (as amended)

**PRELIMINARY AMENDMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Prior to examination on the merits, please amend the above-identified application as follows:

**Page 18, fourth full paragraph, replace with the following:**

**Examples**

**Materials**

Primers/Scorpions primers:

B2098-BRCA Scorpions: FAM-CGCACGATGTAGCACATCAGAAGCGTGCG-MR-HEG-TTGGAGATTTTGCTCACTTCCACTCTCAAA (SEQ ID NO: 1); (SEQ ID NO:2)

Underlined regions are the hairpin forming parts, FAM is the fluorescein dye, MR is a non-fluorogenic fluorophore attached to a uracil, HEG is the replication blocking hexethylene glycol monomer. The probe matches the "C-variant" of the BRCA2 polymorphism and mismatches the "A-variant".

R-186-98: untailed equivalent of B2098:TTGGAGATTTTGCTCACTTCCACTCTCAAA (SEQ ID NO: 2)

R187-98: opposing primer to the R186-98 and the equivalent Scorpions.

Z3702: the probe segment of the Scorpions B2098:

FAM-CGCACGATGTAGCACATCAGAAGCGTGCG-MR (SEQ ID NO: 3)